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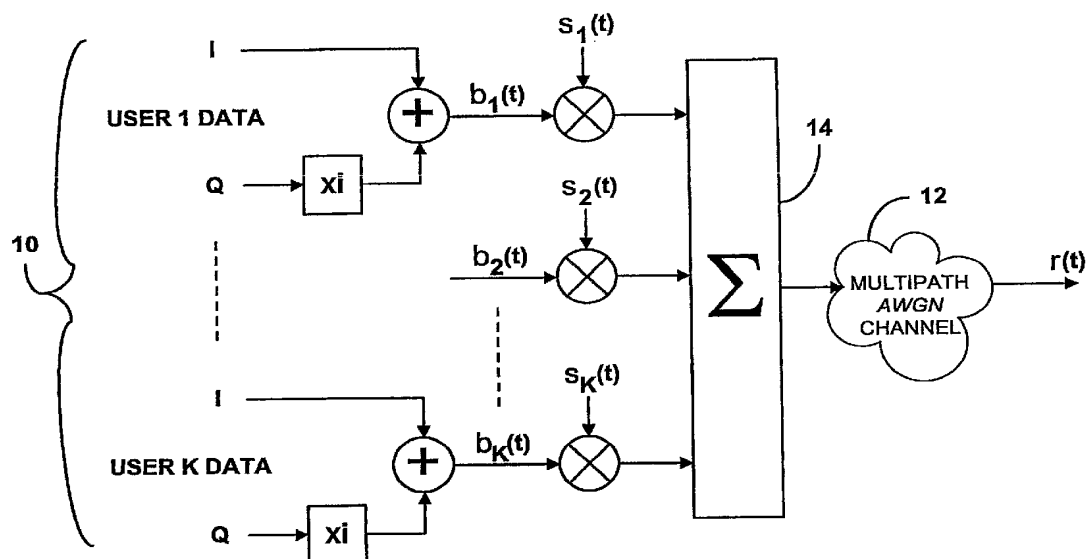
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(54) Title: MULTI-USER DETECTION IN CDMA SYSTEMS



(57) Abstract: A natural gradient Blind Multi User Detection (BMUD) network system and method adaptively estimates a set of matrices to counter a linear convolutive environment model. Feedforward and feedback network structures may be implemented, with or without matrix inversion. In other aspects, an adaptive weighting matrix is introduced into a RAKE structure, and the matrix is adaptively estimated using Principal Component Analysis (PCA) computational techniques and/or static Blind Source Recovery (BSR) computational techniques based on Independent Component Analysis (ICA).

WO 2005/099118 A2



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